

EAST Search History

### EAST Search History (Prior Art)

| Ref # | Blis  | Search Query   | Blis   | Default Operator | Paras | Time Stamp          |
|-------|-------|--|--|------------------|-------|---------------------|
| S4    | 28113 | \$34/207 21,252.cds. 338932R.cds. 369313,314,315,316,317,318,318,1,319,320,321,322,323,324,324,1,324,11,324,12,324,2,325,326,327,327,1,327,11,327,2,327,21,327,22,327,23,327,24,327,3,327,31,327,32,327,33.cds. 4380,310,14,17,48.cds. 29,992,592,1,595,602,1603,01.cds. | US_PGPUB, USPAT, USCOOR_FPRS, EPO, IPO, DERWENT, JBM_IDB | OR               | ON    | 2010/01/16<br>19:05 |
| S5    | 3     | \$4 and (bridge wheatstone) nearS5   | US_PGPUB, USPAT, USCOOR_FPRS, EPO, IPO, DERWENT, JBM_IDB | OR               | ON    | 2010/01/16<br>19:05 |
| S7    | 2     | \$36024/T1.pn  | US_PGPUB, USPAT, USCOOR_FPRS, EPO, IPO, DERWENT, JBM_IDB | OR               | ON    | 2010/01/16<br>19:06 |
| S8    | 273   | \$4 and (bridge wheatstone) near3 width  | US_PGPUB, USPAT, USCOOR_FPRS, EPO, IPO, DERWENT, JBM_IDB | OR               | ON    | 2010/01/16<br>19:11 |
| S196  | 28014 | \$34/207 21,252.cds. 338932R.cds. 369313,314,315,316,317,318,318,1,319,320,321,322,323,324,324,1,324,11,324,12,324,2,325,326,327,327,1,327,11,327,2,327,21,327,22,327,23,327,24,327,3,327,31,327,32,327,33.cds. 4380,310,14,17,48.cds. 29,992,592,1,595,602,1603,01.cds. | US_PGPUB, USPAT, USCOOR_FPRS, EPO, IPO, DERWENT, JBM_IDB | OR               | ON    | 2009/12/30<br>18:19 |
| S197  | 19419 | \$196 and (atomic semiconductor wafer)   | US_PGPUB, USPAT, USCOOR_FPRS, EPO, IPO, DERWENT, JBM_IDB | OR               | ON    | 2009/12/30<br>18:19 |
| S198  | 4085  | \$197 and (pinned fixed) near3 (layer level)   | US_PGPUB, USPAT, USCOOR_FPRS, EPO, IPO, DERWENT, JBM_IDB | OR               | ON    | 2009/12/30<br>18:19 |
| S199  | 166   | \$198 and (bridge wheatstone) same (magnet)sInnearS4   | US_PGPUB, USPAT, USCOOR_FPRS, EPO, IPO, DERWENT, JBM_IDB | OR               | ON    | 2009/12/30<br>18:19 |
| S200  | 314   | \$198 and (bridge wheatstone)  | US_PGPUB, USPAT, USCOOR_FPRS, EPO, IPO, DERWENT, JBM_IDB | OR               | ON    | 2009/12/30<br>18:19 |
| S201  | 548   | \$200 and \$199  | US_PGPUB, USPAT, USCOOR_FPRS, EPO, IPO, DERWENT, JBM_IDB | OR               | ON    | 2009/12/30<br>18:19 |
| S202  | 984   | \$198 and (/* eight plurals3 multip3 additional) near3 (magnet)sInnearS4 (per cur cur) /* two plurals3 multip3 additional) near3 (bridge wheatstone) dual3 bridge dual3 adj bridge dual3 wheatstone dual3 adj wheatstone)  | US_PGPUB, USPAT, USCOOR_FPRS, EPO, IPO, DERWENT, JBM_IDB | OR               | ON    | 2009/12/30<br>18:19 |

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|------|------|---|--|----|----|----------|
| S303 | 915  | \$202 and \$201   | US-PPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM; TDB | GR | CN | 20091290 |
| S304 | 765  | \$203 and \$199   | US-PPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM; TDB | GR | CN | 20091290 |
| S305 | 310  | \$198 and (bridge whelstone) same (gear turn cur)   | US-PPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM; TDB | GR | CN | 20091290 |
| S306 | 28   | \$205 and \$199   | US-PPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM; TDB | GR | CN | 20091290 |
| S307 | 7871 | 3quadr valve spin adj valve) and (gear turn cur magnetis result4)   | US-PPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM; TDB | GR | CN | 20091290 |
| S308 | 3578 | \$207 and (pinned fixed) near3 (layer level)  | US-PPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM; TDB | GR | CN | 20091290 |
| S309 | 240  | \$208 and (bridge whelstone)  | US-PPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM; TDB | GR | CN | 20091290 |
| S310 | 516  | \$208 and ('2 two parallel multiplex additional) near3 (bridge whelstone/ dual bridge dual adj bridge dual) whelstone dual adj whelstone) | US-PPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM; TDB | GR | CN | 20091290 |
| S311 | 3140 | 324/307/21/25;c.xls;38973R.xls  | US-PPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM; TDB | GR | CN | 20091290 |
| S312 | 422  | \$211 and (quadr valve spin adj valve)  | US-PPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM; TDB | GR | CN | 20091290 |
| S313 | 7    | "\$2003070497" "2006010381" "617526" "613627" "6366079" "6501578" "6946834";PN  | US-PPUB; USPAT; USCOR                                    | GR | CN | 20091290 |
| S314 | 32   | \$2691678;URN:  | USPAT  | GR | CN | 20091290 |
| S315 | 8    | \$2577482" "5581388" "5611071" "5945825" "6106698" "6175298" "6178111" "6329818";PN   | US-PPUB; USPAT; USCOR                                    | GR | CN | 20091290 |
| S316 | 1948 | \$197 and direction near3 magnetis5   | US-PPUB; USPAT; USCOR; FPRS; EPO; JPO; DERWENT; IBM; TDB | GR | CN | 20091290 |



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|-----|--------|--|--|----|----|----------|
| S20 | \$1730 | S29 and (abstic semiconductor wafer)   | US_PGPUB; USPAT; USOCR_FPRS; EPO_IPO; DERWENT; JBM_TDB | OR | ON | 20091290 |
| S21 | \$197  | S29 and (( <sup>2</sup> two second additional plural\$3 multip\$3) near\$5 (near two magnetic\$1 result\$4 magnetic read result\$4 near\$3 detect\$3 prior translat\$4) same ((prior fixed hard) near\$3 (byter level direction) direction near\$3 magnetic\$5) with term \$3 perpendicular\$2 orthogonal\$2 normal\$2)) | US_PGPUB; USPAT; USOCR_FPRS; EPO_IPO; DERWENT; JBM_TDB | OR | ON | 20091290 |
| S22 | \$21   | S29 not S28 and S25  | US_PGPUB; USPAT; USOCR_FPRS; EPO_IPO; DERWENT; JBM_TDB | OR | ON | 20091290 |
| S23 | \$112  | S29 and (bridge whiststone)  | US_PGPUB; USPAT; USOCR_FPRS; EPO_IPO; DERWENT; JBM_TDB | OR | ON | 20091290 |
| S24 | \$61   | S23 not S22 not S28 not S25  | US_PGPUB; USPAT; USOCR_FPRS; EPO_IPO; DERWENT; JBM_TDB | OR | ON | 20091290 |
| S25 | \$1054 | spun fixed hard near 3 layer   | US_PGPUB; USPAT; USOCR_FPRS; EPO_IPO; DERWENT; JBM_TDB | OR | ON | 20091290 |
| S26 | \$1497 | S23 and (near two magnetic\$1 result\$4 magnetic\$2 near 3 result\$4)  | US_PGPUB; USPAT; USOCR_FPRS; EPO_IPO; DERWENT; JBM_TDB | OR | ON | 20091290 |
| S27 | \$1676 | S23 and (bridge whiststone (plural\$4 multip\$4 several two "2" second additional)) same (near two magnetic\$1 result\$4 magnetic\$2 near 3 result\$4)   | US_PGPUB; USPAT; USOCR_FPRS; EPO_IPO; DERWENT; JBM_TDB | OR | ON | 20091290 |
| S28 | \$30   | S23 and ("x-axis" x near\$3 axis) and ("y-axis" y near\$3 axis)  | US_PGPUB; USPAT; USOCR_FPRS; EPO_IPO; DERWENT; JBM_TDB | OR | ON | 20091290 |
| S29 | \$33   | S23 and (multi\$1 axis (plural\$4 multi\$4 several additional "2" two) near\$3 axis)   | US_PGPUB; USPAT; USOCR_FPRS; EPO_IPO; DERWENT; JBM_TDB | OR | ON | 20091290 |
| S30 | \$10   | S29 not S28  | US_PGPUB; USPAT; USOCR_FPRS; EPO_IPO; DERWENT; JBM_TDB | OR | ON | 20091290 |
| S31 | \$541  | 369/158 cdx  | US_PGPUB; USPAT; USOCR_FPRS; EPO_IPO; DERWENT; JBM_TDB | OR | ON | 20091290 |

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|------|--------|--|--|----|----|------------|
| S242 | 301370 | \$734' dia.'138' dia.'360' dia.'488' dia.'59' dia.'365' dia.   | US-PGPUB;<br>USPAT;<br>USOCR.FPRS;<br>EPO, IPO,<br>DERWENT;<br>JBM_TDB | OR | CN | 2009/12/30 |
| S243 | 31294  | \$245 and (car tire magnet3)res34 magnetic near3 result34)   | US-PGPUB;<br>USPAT;<br>USOCR.FPRS;<br>EPO, IPO,<br>DERWENT;<br>JBM_TDB | OR | CN | 2009/12/30 |
| S244 | 31864  | \$245 and ((pinmed fixed hard) near3 (layer axis) spin3)valve spin adj valve)  | US-PGPUB;<br>USPAT;<br>USOCR.FPRS;<br>EPO, IPO,<br>DERWENT;<br>JBM_TDB | OR | CN | 2009/12/30 |
| S245 | 3383   | \$245 and ((pinmed3 multip34 several '4' few fourth) near3 (magnetic near3)res34 car tire spin3)valve spin adj valve magnet3)res34) (bridge whetstone) same (car tire spin3)valve spin adj valve magnet3)res34 magnetic near3 result34)) | US-PGPUB;<br>USPAT;<br>USOCR.FPRS;<br>EPO, IPO,<br>DERWENT;<br>JBM_TDB | OR | CN | 2009/12/30 |
| S246 | 312671 | \$1pinmed fixed hard) near3 (layer axis spin3)valve spin adj valve) same (car tire magnet3)res34 magnetic near3 result34)  | US-PGPUB;<br>USPAT;<br>USOCR.FPRS;<br>EPO, IPO,<br>DERWENT;<br>JBM_TDB | OR | CN | 2009/12/30 |
| S247 | 31891  | \$246 and ((pinmed3 multip34 several '4' few fourth) near3 (magnetic near3)res34 car tire spin3)valve spin adj valve magnet3)res34) (bridge whetstone) same (car tire spin3)valve spin adj valve magnet3)res34 magnetic near3 result34)) | US-PGPUB;<br>USPAT;<br>USOCR.FPRS;<br>EPO, IPO,<br>DERWENT;<br>JBM_TDB | OR | CN | 2009/12/30 |
| S248 | 301370 | \$734' dia.'138' dia.'360' dia.'488' dia.'59' dia.'365' dia.   | US-PGPUB;<br>USPAT;<br>USOCR.FPRS;<br>EPO, IPO,<br>DERWENT;<br>JBM_TDB | OR | CN | 2009/12/30 |
| S249 | 31294  | \$248 and (car tire magnet3)res34 magnetic near3 result34)   | US-PGPUB;<br>USPAT;<br>USOCR.FPRS;<br>EPO, IPO,<br>DERWENT;<br>JBM_TDB | OR | CN | 2009/12/30 |
| S250 | 310647 | \$249 and ((pinmed fixed hard) near3 (layer axis) spin3)valve spin adj valve)  | US-PGPUB;<br>USPAT;<br>USOCR.FPRS;<br>EPO, IPO,<br>DERWENT;<br>JBM_TDB | OR | CN | 2009/12/30 |
| S251 | 3383   | \$250 and ((pinmed3 multip34 several '4' few fourth) near3 (magnetic near3)res34 car tire spin3)valve spin adj valve magnet3)res34) (bridge whetstone) same (car tire spin3)valve spin adj valve magnet3)res34 magnetic near3 result34)) | US-PGPUB;<br>USPAT;<br>USOCR.FPRS;<br>EPO, IPO,<br>DERWENT;<br>JBM_TDB | OR | CN | 2009/12/30 |
| S252 | 371    | \$251 and \$251  | US-PGPUB;<br>USPAT;<br>USOCR.FPRS;<br>EPO, IPO,<br>DERWENT;<br>JBM_TDB | OR | CN | 2009/12/30 |
| S253 | 297    | \$247 and \$251  | US-PGPUB;<br>USPAT;<br>USOCR.FPRS;<br>EPO, IPO,<br>DERWENT;<br>JBM_TDB | OR | CN | 2009/12/30 |

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|-----|------|--|---|----|----|------------|
| S24 | 607  | \$80914,21 ads.  | US_PGPUB,<br>USPAT,<br>USCOR_PPBS<br>EPO, IPO,<br>DERWENT,<br>JDM_TDB | GR | ON | 2009/12/30 |
| S25 | 3172 | TSATO near3 HIDEKI in  | US_PGPUB,<br>USPAT,<br>USCOR_PPBS<br>EPO, IPO,<br>DERWENT,<br>JDM_TDB | GR | ON | 2009/12/30 |
| S26 | 32   | [GOHASHI near3 TOSHIYUKI] in   | US_PGPUB,<br>USPAT,<br>USCOR_PPBS<br>EPO, IPO,<br>DERWENT,<br>JDM_TDB | GR | ON | 2009/12/30 |
| S27 | 38   | IWAKU near3 YUKO) in   | US_PGPUB,<br>USPAT,<br>USCOR_PPBS<br>EPO, IPO,<br>DERWENT,<br>JDM_TDB | GR | ON | 2009/12/30 |
| S28 | 970  | YOSHIDA near3 SUSUMU) in   | US_PGPUB,<br>USPAT,<br>USCOR_PPBS<br>EPO, IPO,<br>DERWENT,<br>JDM_TDB | GR | ON | 2009/12/30 |
| S29 | 32   | J150 near3 ROXKBH) in  | US_PGPUB,<br>USPAT,<br>USCOR_PPBS<br>EPO, IPO,<br>DERWENT,<br>JDM_TDB | GR | ON | 2009/12/30 |
| S30 | 84   | \$S25 \$258 and (gmr tor magnet1resis4 magnetic near3 resist4) same (spin1 valve spin adj valve (joined fixed band) near3 (layer axis))  | US_PGPUB,<br>USPAT,<br>USCOR_PPBS<br>EPO, IPO,<br>DERWENT,<br>JDM_TDB | GR | ON | 2009/12/30 |
| S31 | 35   | \$S25 \$258 and (gmr tor magnet1resis4 magnetic near3 resist4) and (spin1 valve spin adj valve (joined fixed band) near3 (layer axis))   | US_PGPUB,<br>USPAT,<br>USCOR_PPBS<br>EPO, IPO,<br>DERWENT,<br>JDM_TDB | GR | ON | 2009/12/30 |
| S32 | 3654 | \$259 and ((eight * eighth) near3 (magnetic near3 resist4 gmr tor spin1) valve spin adj valve magnet1resis4) (bridge whistles) same (gmr tor spin1 valve spin adj valve magnet1resis4 magnetic near3 resist4)) | US_PGPUB,<br>USPAT,<br>USCOR_PPBS<br>EPO, IPO,<br>DERWENT,<br>JDM_TDB | GR | ON | 2009/12/30 |
| S33 | 311  | \$30 not S21   | US_PGPUB,<br>USPAT,<br>USCOR_PPBS<br>EPO, IPO,<br>DERWENT,<br>JDM_TDB | GR | ON | 2009/12/30 |
| S34 | 3888 | \$24 and ((eight * eighth) near3 (magnetic near3 resist4 gmr tor spin1) valve spin adj valve magnet1resis4) (bridge whistles) same (gmr tor spin1 valve spin adj valve magnet1resis4 magnetic near3 resist4))  | US_PGPUB,<br>USPAT,<br>USCOR_PPBS<br>EPO, IPO,<br>DERWENT,<br>JDM_TDB | GR | ON | 2009/12/30 |
| S35 | 354  | \$24 not S23 not S21   | US_PGPUB,<br>USPAT,<br>USCOR_PPBS<br>EPO, IPO,<br>DERWENT,<br>JDM_TDB | GR | ON | 2009/12/30 |

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|------|--------|--|---|----|----|----------|
| S266 | 73     | S265 not S22   | US-PGPUB,<br>USPAT,<br>USOCR-FPRS,<br>EPO, IPO,<br>DERWENT,<br>JHM, TDB | OR | CN | 20091230 |
| S267 | 937    | S24/27 ocb   | US-PGPUB,<br>USPAT,<br>USOCR-FPRS,<br>EPO, IPO,<br>DERWENT,<br>JHM, TDB | OR | CN | 20091230 |
| S268 | 941    | S24/27, S25, ocb, and (plated hard faced) near3 (layer ocb) and (cerm magnet3)near3(magnet3 near3)near4) ocb                       | US-PGPUB,<br>USPAT,<br>USOCR-FPRS,<br>EPO, IPO,<br>DERWENT,<br>JHM, TDB | OR | CN | 20091230 |
| S269 | 5      | \$1'2002006017   '\$3152C   '\$561368   '\$945825   '\$665039*PN   | US-PGPUB,<br>USPAT, USCR  | OR | CN | 20091230 |
| S270 | 901370 | '324 das.'338 das.'367 das.'487 das.'397 das.'365 das.   | US-PGPUB,<br>USPAT,<br>USOCR-FPRS,<br>EPO, IPO,<br>DERWENT,<br>JHM, TDB | OR | CN | 20091230 |
| S271 | 8138   | S270 and nameS3 near3(magnet3)near4  | US-PGPUB,<br>USPAT,<br>USOCR-FPRS,<br>EPO, IPO,<br>DERWENT,<br>JHM, TDB | OR | CN | 20091230 |
| S272 | 560    | S270 and nameS3 near3(magnet3)near4 with (*4 four fourth eight bridge wheatsone phenS4 multipS4)                                   | US-PGPUB,<br>USPAT,<br>USOCR-FPRS,<br>EPO, IPO,<br>DERWENT,<br>JHM, TDB | OR | CN | 20091230 |
| S273 | 730    | nameS3 near3(magnet3)near4 with (*4 four fourth eight bridge wheatsone phenS4 multipS4)  | US-PGPUB,<br>USPAT,<br>USOCR-FPRS,<br>EPO, IPO,<br>DERWENT,<br>JHM, TDB | OR | CN | 20091230 |
| S274 | 670    | S273 and S272  | US-PGPUB,<br>USPAT,<br>USOCR-FPRS,<br>EPO, IPO,<br>DERWENT,<br>JHM, TDB | OR | CN | 20091230 |
| S275 | 908    | nameS3 near3(magnet3)near4(magnet3)near4 with (*4 four fourth eight bridge wheatsone phenS4 multipS4 several additional)           | US-PGPUB,<br>USPAT,<br>USOCR-FPRS,<br>EPO, IPO,<br>DERWENT,<br>JHM, TDB | OR | CN | 20091230 |
| S276 | 878    | S275 not S274 and S273   | US-PGPUB,<br>USPAT,<br>USOCR-FPRS,<br>EPO, IPO,<br>DERWENT,<br>JHM, TDB | OR | CN | 20091230 |
| S277 | 84     | S24/27, S25, ocb, and (plated hard faced) near3 (layer ocb) and (cerm magnet3)near3(magnet3 near3)near4(magnet3 near3)near4) ocb   | US-PGPUB,<br>USPAT,<br>USOCR-FPRS,<br>EPO, IPO,<br>DERWENT,<br>JHM, TDB | OR | CN | 20091230 |
| S278 | 5555   | \$bridge wheatsone) and (spud3 valve spin 3d valve (plated hard faced) near3 (film layer) and (soft free easy) near3 (layer film)) | US-PGPUB,<br>USPAT,<br>USOCR-FPRS,<br>EPO, IPO,<br>DERWENT,<br>JHM, TDB | OR | CN | 20091230 |
| S279 | 1206   | S278 and (\$bridge wheatsone) near3 (*2 two phenS4 multipS4 second additional several) bridges) wheatsone)                         | US-PGPUB,<br>USPAT,<br>USOCR-FPRS,<br>EPO, IPO,<br>DERWENT,<br>JHM, TDB | OR | CN | 20091230 |

## EAST Search History (Interference)

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